

REPORT OF CHANNEL CONDITIONS 100 TO 400 FEET WIDE (ER 1130-2-3165)					PAGE 1 OF 2 DATE: NOVEMBER 2005		
TO: The Record				FROM: U.S. Army Corps of Engineers 26 Federal Plaza, ATTN: CENAN-OP-ST New York, NY 10278-0090			
RIVER/HARBOR NAME AND STATE: Shrewsbury River, New Jersey					MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)			
Reach A: Bay to Highlands: Starts approximately 60 Ft landward of GREEN BUOY W/ LIGHT #3; Ends approximately 460 Ft landward of Route 36 Bridge.	Map 407 Pg 2 thru 6 of 26 May - Jun 2005	300	2.10	12	4.0	8.1	7.6
Reach B: Junction of North and South Branch: Starts approximately 460 Ft landward of Route 36 Bridge; Ends at the junction between the North and South Branches.	Map 407 Pg 6 thru 7 of 26 May - Jun 2005	150	0.48	9	13.7	12.8	10.6
Reach C: Ends at Buoy #38: Starts at the junction between the North and South Branches; Ends at RED BUOY W/ LIGHT #38.	Map 407 Pg 7, 17 thru 23 of 26 May - Jun 2005	150	4.16	9	4.4	2.5	2.7
Reach D: Sands Pt: Starts at RED BUOY W/ LIGHT #38; Ends at RED BUOY W/ LIGHT #40.	Map 407 Pg 23 & 24 of 26 May - Jun 2005	150	0.56	9	7.1	9.1	5.3
Reach E: Pleasure Bay Bridge: Starts at RED BUOY W/ LIGHT #40; Ends approximately 1,025 Ft landward of RED NUN #44 at Pleasure Bay Bridge.	Map 407 Pg 24 & 25 of 26 May - Jun 2005	150	0.73	9	7.2	7.5	5.9
Reach F: Upstream Limit of Project: Starts approximately 1,025 Ft landward of RED NUN #44 at Pleasure Bay Bridge; Ends approximately 950 Ft landward of GREEN CAN #49 at Branchport Avenue.	Map 407 Pg 25 & 26 of 26 May - Jun 2005	150	0.86	9	5.3	7.1	5.8
Reach G: Oceanic Bridge: Starts at the junction between the North and South Branches; Ends approximately 475 Ft landward of RED NUN #16 at Oceanic Bridge.	Map 407 Pg 7 thru 10 of 26 May - Jun 2005	150	2.12	6	1.4	2.5	2.5
Reach H: Red Bank: Starts approximately 475 Ft landward of RED NUN #16 at Oceanic Bridge; Ends approximately 2,400 Ft landward of RED NUN #24.	Map 407 Pg 10 thru 16 of 26 May - Jun 2005	150	3.70	6	2.6	3.4	4.8
REMARKS: <ul style="list-style-type: none"> All depths are in reference to Mean Low Water (MLW) Reach A: Shoaling exists along the left and right edge of the channel and eventually extends across the entire width of the channel from the beginning of this reach to approximately 200 feet landward of Green Buoy #5. There is shoaling on the right edge of the channel starting at Red Nun #6 and extending about 400 feet landward. Shoaling exists about 1,300 feet landward of Green Buoy w/ Light #9 for about 350 feet along the right edge of the channel. Shoaling exists in the right quarter of the channel, about 1,450 feet landward of Red Nun #10, and it extends about 250 feet landward. Shoaling exists in the middle half of the channel, about 1,300 feet landward of Red Nun #10, and it (Remarks continued on Page 2 of 2)							

extends about 250 feet landward. Shoaling exists in the right quarter and extends about half way into the middle half of the channel, about 750 feet seaward of Green Buoy w/ Light #11A, and it extends about 850 feet seaward. Shoaling exists in the left quarter channel, about 1,200 feet seaward of Green Buoy w/ Light #11A, and it extends about 250 feet seaward.

- **Reach B:** No Shoaling exists in this reach.
- **Reach C:** Shoaling exists across the entire channel's width starting about 200 feet landward of Red-Green Buoy w/ Light "NS" and it extends to about 230 feet seaward of the same buoy. Shoaling exists in the left quarter of the channel starting about 400 feet seaward of Red Nun #22 and extends about 100 feet seaward. Shoaling exists across the entire channel's width starting about 550 feet seaward of Red Buoy w/ Light #28 and it extends to about 600 feet landward of the same buoy. Shoaling exists in the left quarter and the middle half of the channel and is about 1,000 feet long and approximately centered around Green Can #29. Shoaling exists along the right edge of the channel, starting about 570 feet landward of Red Nun #32 and extends landward for about 1,500 feet.
- **Reach D:** Shoaling exists in the left quarter of the channel and begins about 350 feet landward of Green Can #37 and extends about 1,900 feet landward. Shoaling exists in the right quarter of the channel beginning about 600 feet seaward of Red Buoy w/ Light #40 and continues to the end of the reach (at Red Buoy w/ Light #40).
- **Reach E:** Shoaling exists along the right outside quarter of the channel throughout almost this entire reach. Shoaling exists in the left quarter as well as the middle half of the channel, beginning at about 450 feet landward of Red Nun #42 and extends to the end of the reach.
- **Reach F:** Large areas of shoaling exist sporadically throughout the entire width of the channel for this whole reach. The channel is shoaled to a depth of 1.3 feet at the very end of this reach, about 80 feet seaward of Branchport Avenue, however this portion of the channel is not currently usable by boats nor is it able to be dredged due to the low-lying bridge. Therefore, the depths considered for this Controlling Depth Report consist only of soundings up to about 200 feet seaward of Branchport Avenue.
- **Reach G:** Shoaling exists in the left outside quarter and the middle half of the channel starting at about Red Nun #2 and it extends out to approximately Green Can #1. Shoaling exists in the right outside quarter of the channel starting at about Red Nun #4 and extends about 250 feet seaward. Shoaling exists in the middle half of the channel starting at about Red Nun #4 and extends about 275 feet landward. Shoaling exists throughout almost the entire width of the channel starting at about Green Buoy w/ Light #5 and extends approximately 75 feet landward from Red Nun #6. Shoaling exists in large areas spread sporadically throughout the entire width of the channel beginning at about 400 feet landward of Red Nun #10 and extending to Red Nun #16.
- **Reach H:** Shoaling exists in large areas spread sporadically throughout the entire width of the channel beginning at about 1,100 feet seaward of Red Nun #22 and extending to Red Nun #24. Shoaling exists in the left quarter of the channel beginning about 1,500 feet seaward of the end of the reach and it extends about 400 feet seaward. The entire width of the channel is shoaled for about the last 300 feet of the reach.